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APPLICATION NO.	ı F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/054,179	10/054,179 01/17/2002		William R. Wheeler	10559-607001/P12891	4487	
20985	7590	06/06/2006		EXAMINER		
FISH & RI		SON, PC	THOMPSON, ANNETTE M			
P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER	
				2825	2825	
				DATE MAILED: 06/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commons	10/054,179	WHEELER ET AL.					
Office Action Summary	Examiner	Art Unit					
	A. M. Thompson	2825					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was provided to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 09 Ma	<u>arch 2006</u> .						
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for alloward closed in accordance with the practice under E	•						
Disposition of Claims							
4)	vn from consideration. is/are rejected.						
Application Papers							
9) The specification is objected to by the Examiner	т.						
10)⊠ The drawing(s) filed on 31 January 2005 is/are:							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex-							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
2) Notice of Draisperson's Patent Drawing Review (PTO-946) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09 March 2006 has been entered.

- 2. Applicants' Amendment to application 10/054,179 has been examined. Claims 1, 7-9, 11, 17-19, 21, 27-29 are amended. Claims 6, 10, 16, 20, 26 and 30 are cancelled. Claims 1-5, 7-9, 11-15, 17-19, 21-25, and 27-29 are pending.
- 3. Applicants' amendments and remarks have been fully reviewed and considered.

 The applicable rejections of the prior office action are incorporated herein.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Rejection of claims 1-5, 7-9, 11-15, 17-19, 21-25, and 27-29

5. Claims 1-5, 7-9, 11-15, 17-19, 21-25, and 27-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Watkins et al., U.S. Patent 5,220,512. Watkins

discloses a system for simultaneous, interactive presentation of electronic circuit diagrams and simulation data.

6. Pursuant to claims 1, 9, 11, 19, 21, 29, Watkins discloses a method (c1, c9), article comprising a machine-readable medium (c11, c19), and apparatus (c21, c29) for modeling a logic design (Abstract, Figs. 1, 2; col. 8, II. 10-48), comprising creating a graphical representation of the logic design (col. 5, II. 26-44); generating simulation code based on the graphical representation (col. 5, II. 26-44; col. 5, line 59 to col. 6, line 13); the simulation code comprising executable code (claim 1, lines 18-19, claim 11, lines 36-37); and using the simulation code to test operation of the logic design (see claims 1-5), wherein using the simulation code comprises:

propagating a state through the simulation code (col. 7, II. 12-47); and determining if there is an error in the logic design based on the propagated state (col. 4, II. 15-20), wherein determining is performed via executable instructions that operate absent user intervention (col. 12, II. 16-20).

- 7. Pursuant to claims 2, 12, and 22, wherein the graphical representation is comprised of functional block diagrams and virtual wires that interconnect the functional block diagrams (Fig. 3; col. 5, Il. 26-43).
- 8. Pursuant to claims 3, 13, 23 wherein creating comprises retrieving the functional block diagrams from a database and arranging the functional block diagrams and the virtual wires to model the logic design (col. 5, II. 45-58).
- 9. Pursuant to claims 4, 14, 24, wherein creating comprises defining the functional block diagrams and the virtual wires to model the logic design (col. 8, II. 10-35).

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- 10. Pursuant to claims 5, 15, 25, further comprising displaying a menu comprised of different types of functional block diagrams (col. 5, II. 21-24); receiving an input selecting one of the different types of functional block diagrams; retrieving a selected functional block diagram; and creating the graphical representation of the logic design using the selected functional block diagram (col. 5, II. 26-40).
- 11. Pursuant to claims 7, 17, and 27, wherein the state comprises one of a zero, one and an undefined state (Fig. 4, state table).
- 12. Pursuant to claim 8, 18, and 28, further comprising providing a visual indication if there is an error in the graphical representation of the logic design (col. 6, II. 2-6; col. 9, II. 45-57).

Conclusion

13. Any inquiry concerning this communication or earlier communications should be directed to Examiner A.M. Thompson whose telephone number is (571) 272-1909. The Examiner can usually be reached Monday thru Friday from 8:00 a.m. to 4:30 p.m..

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

14. Responses to this action should be mailed to the appropriate mail stop:

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Mail Stop _____

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

or faxed to:

(571) 273-8300, (for all OFFICIAL communications intended for entry)

A. M. THOMPSON
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